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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

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Applicant's or agent's file reference GP9004-PC	FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/KR2003/000653	International filing date (day/month/year) 01 APRIL 2003 (01.04.2003)	Priority date (day/month/year) 01 APRIL 2002 (01.04.2002)
International Patent Classification (IPC) or national classification and IPC IPC7 G02F 1/1335		
Applicant HUNATECH CO., LTD. et al		

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 3 sheets, including this cover sheet.

☒ This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of 3 sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☐ Certain defects in the international application
- VIII ☐ Certain observations on the international application

Date of submission of the demand 29 OCTOBER 2003 (29.10.2003)	Date of completion of this report 20 JULY 2004 (20.07.2004)
Name and mailing address of the IPEA/KR  Korean Intellectual Property Office 920 Dunsan-dong, Seo-gu, Daejeon 302-701, Republic of Korea Facsimile No. 82-42-472-7140	Authorized officer YANG, Jae Seok Telephone No. 82-42-481-5988 

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/KR2003/000653

1. Basis of the report

1. With regard to the elements of the international application:*

- ☐ the international application as originally filed
- ☒ the description:
 pages 1-37, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☒ the claims:
 pages _____, as originally filed
 pages _____, as amended (together with any statement) under Article 19
 pages _____, filed with the demand
 pages 38-40, filed with the letter of 10 JULY 2004
- ☒ the drawings:
 pages 1/46-46/46, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____
- ☐ the sequence listing part of the description:
 pages _____, as originally filed
 pages _____, filed with the demand
 pages _____, filed with the letter of _____

2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language English which is

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☒ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rules 55.2 and/or 55.3).

3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☒ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☒ the claims, Nos. 4,7
- ☐ the drawings, sheet _____

5. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**

* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed." and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17).

** Any replacement sheet containing such amendments must be referred to under item I and annexed to this report.

INTERNATIONAL PRELIMINARY EXAMINATION

International application No.

PCT/KR2003/000653

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	1-3, 5-6, 8-9	YES
	Claims	NONE	NO
Inventive step (IS)	Claims	1-3, 5-6, 8-9	YES
	Claims	NONE	NO
Industrial applicability (IA)	Claims	1-3, 5-6, 8-9	YES
	Claims	NONE	NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents which are cited as particularly relevant in the Written Opinion:

D1: JP 10-153779 A(HITACHI LTD) 09 JUNE 1998

D2: WO 99/06881 A(HITACHI LTD) 11 FEBRUARY 1999

D3: WO 2000/57241 A(LG CHEMICAL LTD) 28 SEPTEMBER 2000

Essential technical features of amended Claim 1 are as follows.

- The countless recesses have random shapes and at the same time the gradation pattern of the above recesses meets the requirement that, all the features of the density, the profile Ra, the profile Ry and the contour size of the recesses have a varying pattern gradually increasing with the distance from the side of the lighting guide panel.
- The countless recesses are formed into random shapes by a sandblasting method.

None of the above documents disclose the essential technical features of the amended Claim 1. According to D1 and D2, the dots have regular shapes, and D1 does not disclose the profile Ra, the profile Ry and the contour size of the recesses. Therefore, there are differences in view of the shape and pattern of the recesses(or dots) between the inventions of the above documents and the claimed invention.

D3 discloses that the pattern 31 may be formed by a sandblasting method. However, D3 fails to teach a sandblasting method in detail and a method on how the gradation pattern defined in the amended Claim 1 can be formed by a sandblasting method.

Therefore, the amended Claim 1 and its dependent Claims 2-3, 5-6 and 8-9 are considered to be novel, to involve an inventive step and to be industrially applicable.